THU

STATES PATENT AND TRADEMARK OFFICE UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark O Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov CONFIRMATION NO. ATTORNEY DOCKET NO. APPLICATION NO PAR FIRST NAMED INVENTOR 5479 0526-1133 10/593,821 11/21/2006 Xavier Meynial **EXAMINER** 466 7590 05/01/2008 PAUL, DISLER YOUNG & THOMPSON ART UNIT PAPER NUMBER 209 Madison Street Suite 500 2615 ALEXANDRIA, VA 22314 DATE MAILED: 05/01/2008

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

### NOTICE OF ALLOWANCE AND FEE(S) DUE

466

7590

05/01/2008

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314

| EXA      | MINER        |
|----------|--------------|
| PAUL     | , DISLER     |
| ART UNIT | PAPER NUMBER |
| 2615     |              |

DATE MAILED: 05/01/2008

| . APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------|-------------|----------------------|---------------------|------------------|
| 10/593,821        | 11/21/2006  | Xavier Meynial       | 0526-1133           | 5479             |

TITLE OF INVENTION: SOUND DEVICE PROVIDED WITH A GEOMETRIC AND ELECTRONIC RADIATION CONTROL

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO           | \$1440        | \$300               | \$0                  | \$1740           | 08/01/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

or Fax

(571)-273-2885

| anneamiata All familiar .   | correspondence includir<br>d below or directed oth   | or the Patent advance of   | rders and notification of a specifying a new corre   | maintenance fees w<br>spondence address;  | and/or (b) indicating a sep   | t correspondence address as arate "FEE ADDRESS" for   |
|---|--|--|--|---|---|---|
| CURRENT CORRESPONDE   | ENCE ADDRESS (Note: Use Bl   | ock 1 for any change of address)   | Fee<br>pap   | (s) Transmittal, This<br>ers. Each additional   | s certificate cannot be used  | or domestic mailings of the<br>for any other accompanying<br>ent or formal drawing, must  |
| 466<br>YOUNG & TH<br>209 Madison Str<br>Suite 500   |  | /2008  |  | Cert  | ificate of Mailing or Trans   | smission<br>g deposited with the United<br>st class mail in an envelope<br>above, or being facsimile<br>date indicated below.                           |
| ALEXANDRIA,   | , VA 22314   |  |  |   |   | (Depositor's name)  |
|   |  |  |  |   |   | (Signature)   |
|   |  |  |  |   |   | (Date)  |
| . APPLICATION NO.   | FILING DATE  |  | FIRST NAMED INVENTOR   |   | ATTORNEY DOCKET NO.   | CONFIRMATION NO.  |
| 10/593,821  | 11/21/2006   | . I  | Xavier Meynial   | <u>-</u>  | 0526-1133   | 5479  |
| APPLN, TYPE   | SMALL ENTITY   | ISSUE FEE DUE  | METRIC AND ELECTRO   | PREV. PAID ISSUE  |   | E DATE DUE  |
| nonprovisional  | NO NO  | \$1440   | \$300  | \$0   | \$1740  | 08/01/2008  |
| ·   | · · · · · · · · · · · · · · · · · · ·  |  | CLASS-SUBCLASS   | 1   | ••••  | ,   |
| EXAM  |  | ART UNIT   | 381-082000   | ]   |   |   |
| PAUL, I   | ence address or indication   | 2615   | 2. For printing on the p   | 1:-   |   |   |
| CFR 1.363).  Change of corresponders form PTO/SE  "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.  ASSIGNEE NAME A | ondence address (or Cha<br>3/122) attached.<br>ication (or "Fee Address<br>2 or more recent) attach<br>ND RESIDENCE DATA<br>ess an assignee is ident<br>h in 37 CFR 3.11. Comp | "Indication form led. Use of a Customer  A TO BE PRINTED ON 7  | (1) the names of up to or agents OR, alternatic (2) the name of a sing registered attorney or 2 registered patent attorney in the control of  | vely, le firm (having as a agent) and the name meys or agents. If r printed.  pe) patent. If an assigne assignment. | member a 2es of up to no name is 3ee is identified below, the o   | document has been filed for   |
| Please check the appropri   | iate assignee category or  | categories (will not be pr   | rinted on the patent) :  | Individual Co   | rporation or other private gr   | oup entity Government   |
|   | are submitted:  o small entity discount p  of Copies   | permitted)   | ☐ A check is enclosed. ☐ Payment by credit ca  | rd. Form PTO-2038   | ge the required fee(s), any d   |   |
| a. Applicant claim  | tus (from status indicates<br>s SMALL ENTITY statu   | us. See 37 CFR 1.27.   |  |   | L ENTITY status. See 37 C   | CFR 1.27(g)(2). the assignee or other party in  |
| nterest as shown by the   | ecords of the United Sta   | uired) will not be accepte<br>ites Patent and Trademark  | Office.  | me applicant; a regis   | sered automey of agent, of t  | and assigned or other party III   |
| Authorized Signature  |  |  |  | Date  |   |   |
| Typed or printed name   | e  |  |  | Registration N  | o   |   |
| This collection of inform<br>an application. Confident<br>submitting the completed<br>his form and/or suggesti                | ation is required by 37 C<br>tiality is governed by 35<br>I application form to the<br>ons for reducing this bu  | CFR 1.311. The informatic<br>U.S.C. 122 and 37 CFR<br>USPTO. Time will vary<br>rden, should be sent to the | on is required to obtain or 1.14. This collection is es depending upon the indicated the collection office Collection of the collection of | retain a benefit by th<br>timated to take 12 n<br>vidual case. Any co<br>er, U.S. Patent and                        | ne public which is to file (ar<br>ninutes to complete, includi<br>mments on the amount of t<br>Trademark Office, U.S. Der<br>SEND TO: Compissions | nd by the USPTO to process)<br>ing gathering, preparing, and<br>ime you require to complete<br>partment of Commerce, P.O.<br>for Patents P.O. Box 1450. |

Box 1450, Alexandria, Virginia 22 Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

|  | Application No.  | Applicant(s)  |  |  |  |
|--|--|---|--|--|--|
|  | 10/593,821   | MEYNIAL, XAVIER   |  |  |  |
| Notice of Allowability   | Examiner   | Art Unit  |  |  |  |
|  | DISLER PAUL  | 2615  |  |  |  |
| The MAILING DATE of this communication appe<br>All claims being allowable, PROSECUTION ON THE MERITS IS<br>herewith (or previously mailed), a Notice of Allowance (PTOL-85)<br>NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI  | (OR REMAINS) CLOSED in this app<br>or other appropriate communication<br>IGHTS. This application is subject to | olication. If not included will be mailed in due course. THIS |  |  |  |
| 1. This communication is responsive to 3/26/08.  |  |   |  |  |  |
| 2. The allowed claim(s) is/are <u>1 and 4-12</u> .   |  |   |  |  |  |
| <ul> <li>3.  Acknowledgment is made of a claim for foreign priority uner a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul> | been received. been received in Application No   |   |  |  |  |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.   |  | complying with the requirements                               |  |  |  |
| <ol> <li>A SUBSTITUTE OATH OR DECLARATION must be submi<br/>INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>  |  |   |  |  |  |
| 5. CORRECTED DRAWINGS ( as "replacement sheets") mus   | it be submitted.   |   |  |  |  |
| (a) $\square$ including changes required by the Notice of Draftspers   | on's Patent Drawing Review ( PTO-9   | 948) attached   |  |  |  |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date   |  | •   |  |  |  |
| (b) including changes required by the attached Examiner's<br>Paper No./Mail Date   | Amendment / Comment or in the O  | ffice action of   |  |  |  |
| Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the  |  |   |  |  |  |
| <ol> <li>DEPOSIT OF and/or INFORMATION about the depos<br/>attached Examiner's comment regarding REQUIREMENT F</li> </ol>  | sit of BIOLOGICAL MATERIAL m<br>FOR THE DEPOSIT OF BIOLOGICA   | nust be submitted. Note the AL MATERIAL.                      |  |  |  |
|  |  |   |  |  |  |
| Attachment(s)  | 5. Notice of Informal Pa   | atent Application   |  |  |  |
| <ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>  | 6. ☐ Interview Summary   |   |  |  |  |
|  | Paper No./Mail Date  | ė .   |  |  |  |
| <ol> <li>Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date <u>9/22/06</u></li> </ol>  | 7. Examiner's Amendm   | ient/Comment  |  |  |  |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material  | 8. Examiner's Statement of Reasons for Allowance   |   |  |  |  |
| of Biological Matchai  | 9.  Other  |   |  |  |  |
|  |  |   |  |  |  |
|  |  | •   |  |  |  |

Art Unit: 2615

#### **DETAILED ACTION**

#### Allowable Subject Matter

#### 1. Claims 1,4-12 are allowed.

RE claim 1, While Keele , Jr. disclosed of the public address system allowing uniform sound coverage over a zone to be addressed, comprising an array of electroacoustic sources, each electroacoustic source diffusing a version delayed by a delay , filtered by a filter, and amplified by an input signal amplifier of the system, wherein said array is essentially rectilinear and vertical, in that the angles formed by the axes of emission of the electroacoustic sources and the normal line to the array are such that angleN >angle N-1, where n is the index of the electroacoustic sources numbered in increasing order from top to bottom of the system, and in that the delays work with the angles .theta. such that the system generates a wave front of the shape corresponding to the desired sound coverage of the zone to be addressed.

However, none of the prior art of record disclosed of the wherein the angles of inclination  $\theta$  of the electroacoustic sources (i) are chosen such that for each of the electroacoustic sources (i), the distance d separating the center of said electroacoustic source from the point of intersection between the axis of emission of said electroacoustic source and the desired wave front is minimal, an wherein the delays

Application/Control Number: 10/593,821 Page 3

Art Unit: 2615

(3) are essentially Rn = Rn-i + (dn-i dn)/C for n > i, Rn being the delay in seconds linked to the nth electroacoustic source, RI being any value, c being the speed of sound in m/s, the distances d being

expressed in meters.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Disler Paul whose telephone number is 571-272-2222. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/D. P./ Examiner, Art Unit 2615 /Vivian Chin/ Supervisory Patent Examiner, Art Unit 2615

# Notice of References Cited Application/Control No. | Applicant(s)/Patent Under Reexamination | MEYNIAL, XAVIER Examiner | Art Unit | Page 1 of 1

#### **U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name                            | Classification |
|---|---|--|-----------------|---------------------------------|----------------|
| * | Α | US-5,781,645                                     | 07-1998         | Beale, Christopher John         | 381/370        |
| * | В | US-7,027,605                                     | 04-2006         | Werner, Bernard M.              | 381/99         |
| * | С | US-6,128,395                                     | 10-2000         | De Vries, Gerard Hendrik Joseph | 381/387        |
| * | D | US-2004/0240697                                  | 12-2004         | Keele, D. Broadus JR.           | 381/336        |
| * | E | US-6,628,796                                     | 09-2003         | Adamson, Alan Brock             | 381/342        |
|   | F | US-  |                 |                                 |                |
|   | G | US-  |                 |                                 |                |
|   | Н | US-  |                 |                                 |                |
|   | ı | US-  |                 |                                 |                |
|   | J | US-  |                 |                                 |                |
|   | к | US-  |                 |                                 |                |
|   | L | US-  |                 |                                 |                |
|   | М | US-  |                 |                                 |                |

#### **FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|---|--|-----------------|---------|------|----------------|
|   | N |  |                 |         |      |                |
|   | 0 |  |                 |         |      |                |
|   | Р |  |                 | ,       |      |                |
|   | Q |  |                 |         |      |                |
|   | R |  |                 |         |      |                |
|   | s |  |                 |         |      |                |
|   | Т |  |                 |         |      |                |

#### **NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|---|
|   | υ |   |
|   | ٧ |   |
|   | w |   |
|   | × |   |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

# 10/593821 IAP9 Rec'd PCT/PTO 22 SEP 2006

PATENT 0526-1133

#### IN THE U.S. PATENT AND TRADEMARK OFFICE

In re application of

Xavier MEYNIAL

Conf.

Application No. NEW NATIONAL PHASE

Group

Filed September 22, 2006

Examiner

SOUND DEVICE PROVIDED WITH A GEOMETRIC AND ELECTRONIC RADIATION CONTROL

# INFORMATION DISCLOSURE STATEMENT (SUBMISSION CONCURRENT WITH THE FILING OF A NEW PATENT APPLICATION)

Assistant Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

September 22, 2006

Sir:

Miles

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, and in fulfillment of the duty of disclosure under 37 C.F.R. § 1.56, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

# I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

#### II. COPIES

- Copies of the U.S. patents or publications are not submitted since the USPTO has waived their submission for applications filed after June 30, 2003.
- Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.
- This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should have been forwarded from the International Search Authority pursuant to the trilateral agreement between the USPTO, EPO and JPO, or they are U.S. patents or U.S. published applications. If copies are needed, please contact the undersigned.

10/593821

IAP9 Rec'd PCT/PTO 22 SEP 2006

III. CONCISE EXPLANATION OF THE RELEVANCE (Check at least one box)

a. 

DOCUMENTS IN THE ENGLISH LANGUAGE

The non U.S. patents, non U.S. patent application publications, foreign publications, or other information in the English language do not require a statement of relevancy.

b. DOCUMENTS NOT IN THE ENGLISH LANGUAGE

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. | OTHER

The following additional information is provided for the Examiner's consideration.

#### FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If The Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned.

YOUNG & THOMPSON

Respectfully submitted,

Benoît Castel, Reg. No. 35,041
745 South 23<sup>rd</sup> Street
Arlington, VA 22202
Telephone (703) 521-2297
Telefax (703) 685-0573
(703) 979-4709

AP9 Rec'd PCT/PTO 22 SEP 2006

| PTO-1449            |   | 14            | P9 Rec'                            | <u>d1</u>                 | PCI/PIUZZ SE                          | 7 4UU       | D!            | ·        | Sheet 1                      | of 1      |
|---------------------|---|---------------|------------------------------------|---------------------------|---------------------------------------|-------------|---------------|----------|------------------------------|-----------|
| INFO                | INFORMATION DISCLOSURE CITATION                 |               |                                    |                           | Attorney Docket No.:<br>0526-1133     |             | App           | W NATIO  |                              | HASE      |
|                     | IN AN APPLICAT                                  |               |                                    | Applicant: Xavier MEYNIAL |                                       |             |               |          |                              |           |
|                     | (Use several sheets if ne                       |               | Filing Date:<br>September 22, 2006 | 5                         | Group Art Unit:                       |             |               |          |                              |           |
|                     |   |               | J.S. PATE                          | NT                        | DOCUMENTS                             | -           |               |          |                              |           |
| Examiner<br>Initial | Examiner Document Number Date                   |               |                                    | -                         | Name                                  | Clas        | s Subclass    |          | Filing date (if appropriate) |           |
| /DP/                | 5,452,360                                       |               |                                    |                           | ASHITA ET AL.                         |             | Ţ             |          |                              | -         |
| _/DP/_              | 5,590,214                                       | 12/3          | 1/1996                             | NAK                       | AMURA                                 |             | +             |          |                              |           |
| <del>-</del>        |   | +             |                                    |                           | · · · · · · · · · · · · · · · · · · · |             | 十             |          |                              |           |
|                     |   | +             |                                    |                           |                                       |             |               |          |                              |           |
|                     |   |               |                                    |                           |                                       |             | $\Box$        |          |                              |           |
|                     |   |               |                                    |                           |                                       |             | $\bot$        |          |                              |           |
|                     | <u> </u>  |               |                                    |                           |                                       |             | +             |          |                              |           |
|                     | · · · · · · · · · · · · · · · · · · ·           | <del> </del>  | <del></del>                        |                           |                                       | <del></del> | $\dashv$      |          |                              |           |
|                     | ,   | +             |                                    |                           |                                       |             | 十             |          |                              |           |
|                     |   |               |                                    |                           |                                       |             |               |          |                              |           |
|                     |   |               |                                    |                           |                                       |             | _             |          |                              |           |
|                     |   |               |                                    |                           |                                       |             | +             |          |                              |           |
|                     |   |               | <del></del>                        |                           |                                       |             | +             |          |                              |           |
|                     |   | +             |                                    |                           |                                       |             | +             |          |                              |           |
| <del></del>         |   | _ <del></del> | FOREIGN P                          | ATE                       | NT DOCUMENTS                          |             |               | •        |                              |           |
| Examiner            | Document Number                                 |               | Date                               |                           | Country                               | CI          | lass Subclass |          |                              |           |
| Initial             |   |               |                                    |                           |                                       |             |               |          | Yes                          | <u>No</u> |
| /DP/                | EP 1 187 094                                    |               | 3/13/2002                          |                           | EUROPE                                |             |               |          | <del>  </del>                |           |
|                     |   |               |                                    |                           |                                       |             |               |          | ┥┤                           |           |
|                     |   |               |                                    |                           |                                       |             |               |          | <del>  -  </del>             | _         |
|                     |   |               |                                    |                           |                                       |             |               | <u> </u> | +                            |           |
|                     |   |               |                                    |                           |                                       |             |               |          | lacksquare                   |           |
|                     |   |               |                                    |                           |                                       |             |               |          | <del>  </del>                |           |
|                     |   |               |                                    |                           |                                       |             |               |          | 1                            |           |
|                     |   |               |                                    |                           |                                       |             |               | <u> </u> | <del>  </del>                |           |
|                     |   |               | <u> </u>                           |                           | <u> </u>                              | l           |               | <u> </u> |                              |           |
|                     | OTHER DOCU                                      | MENTS         | S (Including                       | Au                        | thor, Title, Date, Pertine            | ent Page    | s, E          | tc.)     |                              |           |
| /DP/                | MARK S. UREDA: "Wave<br>NO. 4144, 14 May 1996 ( | Field S       | Synthesis wit                      | h H                       | om Arrays" AUDIO ENG                  | INEERIN     | iG S          | OCIETY,  | PREP                         | RINT      |
| /DP/                | EVERT W START "Appl                             | ication       | of Curved Ar                       | mav                       | s in Wave Field Synthesi              | s" AUDI     | O E           | GINEER   | ING                          |           |
| '                   | SOCIETY, PREPRINT NO                            | D. 4143       | ,14 May 199                        | 96 (1                     | 1996-05-14), XP0023023                | <u>59</u>   |               |          |                              |           |
|                     |   |               |                                    |                           |                                       |             |               |          |                              |           |
|                     |   |               |                                    |                           |                                       |             |               |          |                              |           |
|                     |   |               |                                    |                           |                                       |             |               |          |                              |           |
|                     |   |               | <del></del>                        |                           |                                       |             |               |          |                              |           |
|                     |   |               |                                    | 1 =                       | ATE CONCIDENCE                        | ·           |               |          |                              |           |
| EXAMIN              | IER: /Disler Paul/                              |               |                                    | 10                        | ATÉ CONSIDERED                        |             |               |          |                              |           |

12/15/2007

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

\* English language abstract provided for the Examiner's convenience

MAA TT SAM

If Undeliverable Return in Ten Days Alexandria, VA 22313-1450

OFFICIAL BUSINESS PENALTY FOR PRIVATE USE, \$300

AN EQUAL OPPORTUNITY EMPLOYER



**USPTO MAIL CENTER** 



